

**ATTORNEY DOCKET NO.: 0492611-0530/MIT-10077**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Levenberg, et al. Examiner: To be assigned  
Serial No.: 10/731,672 Art Unit: 1636  
Filing Date: December 9, 2003  
Title: ENGINEERING THREE-DIMENSIONAL TISSUE STRUCTURES  
USING DIFFERENTIATING EMBRYONIC STEM CELLS

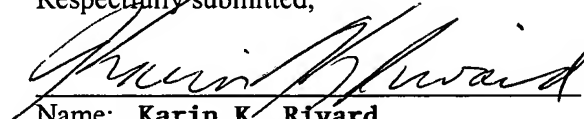
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450  
Sir:

**APPOINTMENT OF ATTORNEY**

On behalf of Massachusetts Institute of Technology, the undersigned hereby appoints Choate, Hall & Stewart, Customer No. 24280 as its attorneys and agents for prosecution of matters relating to the above-identified patent application and to conduct all business in the United States Patent and Trademark Office.

All correspondence should be sent to Valarie B. Rosen, Choate, Hall & Stewart, Exchange Place, 53 State Street, Boston, Massachusetts 02109.

Respectfully submitted,

  
Name: **Karin K. Rivard**  
Title: **Assistant Director/Counsel**  
Date: *August 26, 2004*

3737914v1

3714048.1



ATTORNEY DOCKET NO.: 0492611-0530/MIT-10077

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Levenberg, et al.

Examiner: To be assigned

Serial No.: 10/731,672

Art Unit: 1636

Filing Date: December 9, 2003

Title: ENGINEERING THREE-DIMENSIONAL TISSUE STRUCTURES  
USING DIFFERENTIATING EMBRYONIC STEM CELLS

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**ESTABLISHING RIGHT OF ASSIGNEE TO TAKE ACTION (37 CFR 3.73(b))**

The assignee of the entire right, title and interest, **Massachusetts Institute of Technology** hereby seeks to take action in the Patent and Trademark Office in the above matter.

Ownership by the assignee is established as follows:

\_\_\_ documents already recorded in the PTO on \_\_\_\_\_.


Reel \_\_\_ Frame \_\_\_\_\_; and

Reel \_\_\_ Frame \_\_\_\_\_

X documents separately submitted for recordal to the PTO (a copy of these documents is attached).

**STATEMENT**

I, a person authorized to sign on behalf of the assignee, have reviewed the evidentiary documents referred to above and certify that, to the best of my knowledge and belief, title is mine/ours as assignee who seeks to take further action.

  
\_\_\_\_\_  
Signature

Karin K. Rivard  
\_\_\_\_\_  
Name

Assistant Director/Counsel  
\_\_\_\_\_  
Title

August 26, 2004  
\_\_\_\_\_  
Date

3737921v1

## ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned, Shulamit Levenberg, Ngan F. Huang, Erin Lavik, and Robert Langer, hereby

Sell, assign and transfer to Massachusetts Institute of Technology, a non-profit Institution, having a place of business at 77 Massachusetts Avenue, Cambridge, MA 02139, its successors, assigns and legal representatives, all hereinafter referred to as the ASSIGNEE, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed December 9, 2003 and entitled "Engineering Three-Dimensional Tissue Structures Using Differentiating Embryonic Stem Cells," application serial no. 10/731,672 (attorney docket no. 0492611-0530/MIT-10077) and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

Agree that said ASSIGNEE may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said ASSIGNEE, agree to carry out in good faith the intent and purpose of this assignment by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said ASSIGNEE all facts known to us relating to said inventions and the history thereof, and generally by doing everything possible which said ASSIGNEE shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said ASSIGNEE.

Hereby request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said ASSIGNEE.

Covenant with said ASSIGNEE that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us, and that full right to convey the same as herein expressed is possessed by us.

Dated: 6/27/04

Dated: 6/24/04

Dated: 6/24/04

Shula Levenberg  
Shulamit Levenberg

Christina J. Seal  
Witnessed by:

Sara Darcy  
Witnessed by:

Dated: \_\_\_\_\_

\_\_\_\_\_  
Ngan F. Huang

Dated: \_\_\_\_\_

\_\_\_\_\_  
Witnessed by:

Dated: \_\_\_\_\_

\_\_\_\_\_  
Witnessed by:

Dated: \_\_\_\_\_

\_\_\_\_\_  
Erin Lavik

Dated: \_\_\_\_\_

\_\_\_\_\_  
Witnessed by:

Dated: \_\_\_\_\_

\_\_\_\_\_  
Witnessed by:

Dated: \_\_\_\_\_

\_\_\_\_\_  
Robert Langer

Dated: \_\_\_\_\_

\_\_\_\_\_  
Witnessed by:

Dated: \_\_\_\_\_

\_\_\_\_\_  
Witnessed by:

Dated: \_\_\_\_\_

\_\_\_\_\_  
Shulamit Levenberg

Dated: \_\_\_\_\_

\_\_\_\_\_  
Witnessed by:

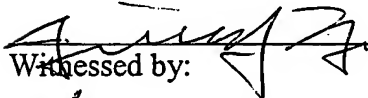
Dated: \_\_\_\_\_

\_\_\_\_\_  
Witnessed by:

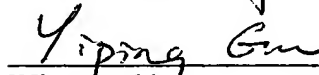
Dated: 6/28/04

  
\_\_\_\_\_  
Ngan F. Huang

Dated: 6/28/04

  
\_\_\_\_\_  
Witnessed by:

Dated: 6/28/04

  
\_\_\_\_\_  
Witnessed by:

Dated: \_\_\_\_\_

\_\_\_\_\_  
Erin Lavik

Dated: \_\_\_\_\_

\_\_\_\_\_  
Witnessed by:

Dated: \_\_\_\_\_

\_\_\_\_\_  
Witnessed by:

Dated: \_\_\_\_\_

\_\_\_\_\_  
Robert Langer

Dated: \_\_\_\_\_

\_\_\_\_\_  
Witnessed by:

Dated: \_\_\_\_\_

\_\_\_\_\_  
Witnessed by:

Dated: \_\_\_\_\_

\_\_\_\_\_  
Shulamit Levenberg

Dated: \_\_\_\_\_

\_\_\_\_\_  
Witnessed by:

Dated: \_\_\_\_\_

\_\_\_\_\_  
Witnessed by:

Dated: \_\_\_\_\_

\_\_\_\_\_  
Ngan F. Huang

Dated: \_\_\_\_\_

\_\_\_\_\_  
Witnessed by:

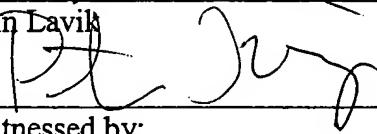
Dated: \_\_\_\_\_

\_\_\_\_\_  
Witnessed by:

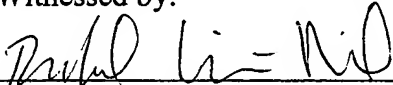
Dated: 6/18/04

  
\_\_\_\_\_  
Erin Lavik

Dated: 6/18/04

  
\_\_\_\_\_  
Witnessed by:

Dated: 6/18/04

  
\_\_\_\_\_  
Witnessed by:

Dated: \_\_\_\_\_

\_\_\_\_\_  
Robert Langer

Dated: \_\_\_\_\_

\_\_\_\_\_  
Witnessed by:

Dated: \_\_\_\_\_

\_\_\_\_\_  
Witnessed by:

Dated: \_\_\_\_\_

\_\_\_\_\_  
Shulamit Levenberg

Dated: \_\_\_\_\_

\_\_\_\_\_  
Witnessed by:

Dated: \_\_\_\_\_

\_\_\_\_\_  
Witnessed by:

Dated: \_\_\_\_\_

\_\_\_\_\_  
Ngan F. Huang

Dated: \_\_\_\_\_

\_\_\_\_\_  
Witnessed by:

Dated: \_\_\_\_\_

\_\_\_\_\_  
Witnessed by:

Dated: \_\_\_\_\_

\_\_\_\_\_  
Erin Lavik

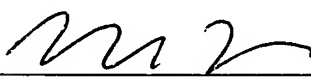
Dated: \_\_\_\_\_

\_\_\_\_\_  
Witnessed by:


Dated: \_\_\_\_\_

\_\_\_\_\_  
Witnessed by:

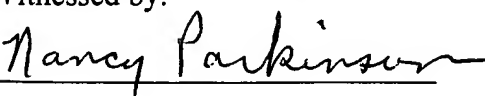
Dated: 8/18/04

  
Robert Langer

Dated: 8/18/04

  
Witnessed by:

Dated: 8/18/04





## ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned, Joseph Itskovitz-Eldor, hereby

Sell, assign and transfer to Technion Research and Development Foundation, Ltd., having a place of business at P. O. Box 9602, Haifa 31096 ISRAEL, its successors, assigns and legal representatives, all hereinafter referred to as the ASSIGNEE, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed December 9, 2003 and entitled "Engineering Three-Dimensional Tissue Structures Using Differentiating Embryonic Stem Cells," application serial no. 10/731,672 (attorney docket no. 0492611-0530/MIT-10077) and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

Agree that said ASSIGNEE may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said ASSIGNEE, agree to carry out in good faith the intent and purpose of this assignment by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said ASSIGNEE all facts known to us relating to said inventions and the history thereof, and generally by doing everything possible which said ASSIGNEE shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said ASSIGNEE.

Hereby request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said ASSIGNEE.

Covenant with said ASSIGNEE that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us, and that full right to convey the same as herein expressed is possessed by us.

Dated: 6.23.04

J. Itsky  
Joseph Itskovitz-Eldor

Dated: 6.23.04

Hadas O'Neil  
Witnessed by:

Dated: 6/23/2004

Hana Cornberg  
Witnessed by: